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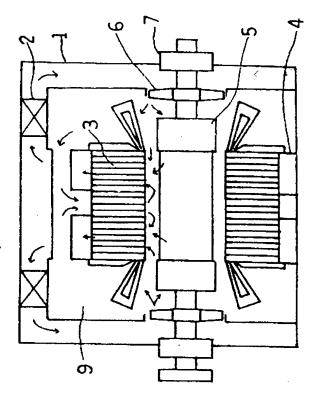
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TITLE

COOLER OF FULLY-CLOSED ROTARY

ELECTRIC MACHINE



ABSTRACT: PURPOSE: To lower the temperature of a coil by employing gas mixed optimally with air and helium as coolant sealed in a fully-closed rotary electric machine.

> CONSTITUTION: Helium which has smaller specific weight than air and no explosive property and air are optimally mixed as coolant 9 sealed in a fully- closed rotary electric machine. In this case, the volumetric ratio of the helium is 40-90%, and the sealability of the frame 1 is set to maintain the above volumetric ratio. Thus, since windage loss can be largely reduced, thermal transmission rate can be improved, the temperature of a coil for limiting the performance of the machine can be reduced to decrease the size.

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